



**AEROSPACE VEHICLE  
SYSTEMS INSTITUTE**  
TEXAS A&M ENGINEERING EXPERIMENT STATION

Ms. Marlene H. Dortch  
Secretary  
Federal Communications Commission  
445 12th Street, S.W.  
Washington, DC 20554

Re: Use of Spectrum Bands Above 24 GHz For Mobile Radio Services, GN Docket 14-177, notice of oral ex parte discussion regarding amendment of Part 15.255 of the Commission's rules for operation aboard aircraft within the band 57-71 GHz

Dear Ms. Dortch:

On July 6, 2017, Kim Kolb and Joe Cramer from Boeing, John Roman and Reza Arefi from Intel, Joe Storniolo from Panasonic Avionics, Steve Rines and Oliver Lücke from Zodiac Inflight Innovations, and David Redman from the Aerospace Vehicle Systems Institute (AVSI) at Texas A&M University met via phone with Julius Knapp, Michael Ha, Rashmi Doshi, William Hurst, Ira Keltz, Jamison Prime, Karen Rackley, and Anh Wride of the Commission's Office of Engineering and Technology, as part of the AVSI cooperative research project that is studying the potential interference to passive services allocated in portions of the 57-71 GHz frequency range.

The AVSI team reviewed with the FCC the progress of the analyses of potential interference to passive services from WiGig devices operated on board aircraft. Detailed modeling of both the WiGig emitter characteristics and dynamics has yielded preliminary results that show no interference per applicable ITU-R limits.

On-aircraft testing was performed during the week of 26 June 2017 to obtain measured data necessary to corroborate analytical models. Preliminary analyses of the data indicate no unexpected behavior. AVSI informed OET that the test plan was shared with representatives from the National Academy of Sciences Committee on Radio Frequencies (CORF) prior to the test campaign. A CORF representative that reviewed the procedures supported the approach taken by the AVSI team.

A final AVSI project report will be filed with the FCC when available.

Respectfully submitted,

David Redman, Director  
Director, Aerospace Vehicle Systems Institute

cc: Michael Ha                      Julius Knapp  
Rashmi Doshi                      Jamison Prime  
William Hurst                      Karen Rackley  
Ira Keltz                              Anh Wride